

### Claims

What is claimed is:

1. A high efficient method of slagging-off for liquid iron, characterized in that the two wings of slag rake mounted to the front end of cantilever makes swing movement respectively along the surface of liquid iron. When gradually moving close to each other, they get put together and clamp the solid slag. Then, driven by the cantilever, the two slag rakes move back to the vicinity of the edge of the liquid iron ladle and discharge the slag.
2. A high efficient method of slagging-off for liquid iron according to Claim 1, characterized in that first, the two slag rakes descend side by side until beneath the surface of the liquid iron at a certain depth. Then after swing movement, they are brought to ascend by the cantilever until above the surface at a certain height. Finally, the two slag rakes are driven by the cantilever to move to the outside of the edge of liquid iron ladle and discharge the slag.
3. A device for implementing the high efficient method of slagging-off for liquid iron according to claim 1 and 2, characterized in that comprising a flatcar track (8), a flatcar (7) which reciprocates along the flatcar track (8) and a cantilever (4) which is connected to the flatcar (7) by means of a hoisting main shaft (5). The rack (10) is fitted in the drive case (2) at the front end of the cantilever (4). It is engaged with the gears (11) on its two sides. The two gears (11) are fixed to the rear ends of two slag rakes (1) by means of two rotating shafts (3).
4. A device for implementing the high efficient method of slagging-off for liquid iron according to claim 3, characterized in that there is an oil cylinder (9) connected to the rear end of the rack (10). The oil cylinder (9) drives the rack (10) to move forward or backward.
5. A device for implementing the high efficient method of slagging-off for liquid iron according to claim 3, characterized in that the flatcar (7) is driven by a motor to move along the flatcar track (8).
6. A device for implementing the high efficient method of slagging-off for liquid iron according to claim 3, characterized in that the flatcar (7) is driven by hydraulic power to move along the flatcar track (8).
7. A device for implementing the high efficient method of slagging-off for liquid iron according to claim 3, characterized in that one side of each of the two slag rakes which gathers and clamps slag is in saw-tooth shape.